## INTERNATIONAL SEARCH REPORT

PCT/1B 02/04004

|   | INTERNATIONAL SEARCH REPORT  |  |  |
|---|--|--|--|
| CLASSIFIC<br>C 7  | CATION OF SUBJECT MATTER<br>H04Q11/00 H04L12/46 H04L12/56  |  |  |
| P4-1  | international Patent Classification (IPC) or to both national classification   | and IPC  | ,  |
|   |  |  |  |
| imum doc<br>C 7   | EARCHED  Aumentation searched (classification system followed by classification sys  | ymbols)  |  |
| cumentati   | on searched other than minimum documentation to the extent that such   | documents are included in  | n the fields searched  |
|   | ata base consulted during the international search (name of data base a  |  |  |
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| PO-1n   | ternal   |  |  |
| nocum   | ENTS CONSIDERED TO BE RELEVANT   |  | Relevant to claim No.  |
| ategory °   | Citation of document, with indication, where appropriate, of the relevant  | ant passages   | 110.00   |
| <   | US 2001/034793 A1 (MADRUGA EWERTOL<br>AL) 25 October 2001 (2001-10-25)<br>paragraph [0046]   | N L ET   | 1,4-7  |
| A   | paragraph [0053]  EP 0 951 198 A (NIPPON ELECTRIC C 20 October 1999 (1999-10-20) paragraph [0019] paragraph [0058]   | 20)  | 1-24   |
| A   | WO 02 45317 A (WORLDCOM INC)<br>6 June 2002 (2002-06-06)<br>abstract   |  | 1-24   |
|   |  |  |  |
| □ F   | urther documents are listed in the continuation of box C.  | 1 <u>/                                    </u>   | embers are listed in annex.  |
| "A" doc<br>co<br>"E" earl<br>fill<br>"L" doc<br>wi<br>cil<br>"O" doc<br>ot<br>"P" doc | ument defining the general state of the art which is not insidered to be of particular relevance liler document but published on or after the international ing date ument which may throw doubts on priority claim(s) or inich is cited to establish the publication date of another tation or other special reason (as specified) cument referring to an oral disclosure, use, exhibition or ther means cument published prior to the international filing date but ter than the priority date claimed | or priority date amu cited to understand invention  "X" document of particul cannot be consider involve an Inventive "Y" document of particul cannot be consider document is combi ments, such combi in the art.  "&" document member of | shed after the international filing date not in conflict with the application but the principle or theory underlying the ar relevance; the claimed invention ed novel or cannot be considered to step when the document is taken alone lar relevance; the claimed invention ed to involve an inventive step when the ned with one or more other such documation being obvious to a person skilled of the same patent family he international search report |
| Date of   | the actual completion of the international search  |  | 06. 2003   |
|   | 14 May 2003  |  | UU, LUUJ   |
| Name  | and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016  | Authorized officer  STEFAN   | HANSSON/JA A   |

## INTERNATIONAL SEARCH REPORT

PCT/IB 02/04004

| Patent document cited in search report |    | Publication<br>date |                | Patent family<br>member(s)       |         | Publication<br>date                    |
|--|----|---------------------|----------------|----------------------------------|---------|--|
| US 2001034793                          | A1 | 25-10-2001          | NONE           |                                  |         |  |
| EP 0951198                             | Α  | 20-10-1999          | AU<br>EP<br>JP | 2039399<br>0951198<br>2000032007 | A2      | 21-10-1999<br>20-10-1999<br>28-01-2000 |
| WO 0245317                             | Α  | 06-06-2002          | AU<br>WO       | 1790202<br>0245317               | A<br>A2 | 11-06-2002<br>06-06-2002               |



#### Europäisches **Patentamt**

European Patent office Office europeen des brevets

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31 651 epo nl (+31-70) 340-3016 Tx Fax

X D-10958 Berlin (+49-30) 25901-0 (+49-30) 25901-840

#### LETTER ACCOMPANYING SUBSEQUENTLY FILED ITEMS

The document(s) listed below is (are) subsequently filed documents pertaining to the following application:

Application number

| 02772655.3 |
|------------|
|            |

Applicant's or representative's reference

| <br> | <br> |              |
|------|------|--------------|
|      |      | MCR/41125EP1 |
|      |      |              |

|   | Description of document               | Original file name            | Assigned file name |
|---|---------------------------------------|-------------------------------|--------------------|
| 1 | Document concerning fees and payments | 26 May 2005 letter to EPO.pdf | FEES-1.PDF         |
| _ | Document concerning fees and payments | 26 May 2005 fee voucher.pdf   | FEES-2.PDF         |

#### **Annotations**

#### Statement

The undersigned hereby declares that the subsequently filed items do NOT contain or are NOT intended to contain any communication relating either to an appeal or to an opposition (OJ EPO 2003, 609: "......This possibility is not yet available in opposition and appeal proceedings; in such proceedings, therefore, the electronic filing of documents is not admissible.").

#### Signatures

Date Signed by: Capacity: 26 May 2005 /Matthew Read/ ( Representative )

### Venner Shipley

The European Patent Office PB 5818 Patentlaan 2 NL-2280 HV Rijswijk Netherlands Venner, Shipley LLP 20 Little Britain London ECIA 7DH

Telephone: +44 (0)20 7600 4212 Facsimile: +44 (0)20 7600 4188

Email: mail@vennershipley.co.uk www.vennershipley.co.uk

26 May 2005

Dear Sirs,

European Patent Application No. 02772655.3 Multicast Data Transfer Nokia Corporation Our ref: DJP/41125EP1

In response to the communication dated 9 May 2005, we enclose our fee voucher authorising you to debit our deposit account for the claims fees due on this application, namely claims 11 to 24.

Yours faithfully,

Matthew Read

Authorised Representative

#### Payment of fees and costs

European Patent Office Cash and Accounts Department Erhardtstr. 27 D-80298 München

Payer's reference

MCR/DJP/41125EP1

**Mode of Payment** 

Bank/Giro office

**Matthew Read** Venner Shipley LLP 20 Little Britain London EC1A 7DH **United Kingdom** 

Bank/Giro Transfer

Enclosed Cheque No.

X Debit from deposit account with the EPO is requested

Deposit Account No. 28050158

Patent application/Patent No. (A separate form is required for each application)

| EP | 02772       | 2655.3                               | PC    | т               |        |
|----|-------------|--------------------------------------|-------|-----------------|--------|
|    | Code<br>001 | Filing fee                           |       | Currency<br>EUR | Amount |
|    | 002         | Search fee                           |       | EUR             |        |
|    | 005         | Designation fee(s)                   |       | EUR             |        |
|    | 015         | Claims fee(s) (Rule 31(1) EPC)       |       | EUR             | 560    |
|    | 055         | Additional copy                      |       | EUR             |        |
|    | 006         | Examination fee                      |       | EUR             |        |
|    | 007         | Fee for grant incl. fee for printing |       | EUR             |        |
|    | 800         | Additional fee for printing >35pages | 3     | EUR             |        |
|    |             |                                      |       | EUR             |        |
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|    |             |                                      | ı     | EUR             |        |
|    |             | То                                   | tal į | EUR             | 560    |

Mother Rand Place/Date London, 26 May 2005



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#### **Receipt of Electronic Submission**

We hereby acknowledge receipt of the following subsequently filed document(s):

| 53162  |  |  |
|--|--|--|
| EP02772655.3   |  |  |
| 26 May 2005  |  |  |
| European Patent Office, The Hague                    |  |  |
|  |  |  |
| MCR/41125EP1   |  |  |
|  |  |  |
| 1  |  |  |
| EPF1038.PDF FEES-1.PDF                               |  |  |
| FEES-2.PDF ep-sfd-request.xml                        |  |  |
| package-data.xml                                     |  |  |
| CN=J. Hester 1309,O=Venner Shipley LLP,C=GB          |  |  |
| Online   |  |  |
| 26 May 2005 14:36:09                                 |  |  |
| 3A:00:E9:F0:D7:F2:4D:90:BE:D0:2B:64:E8:71:E1:78:8B:6 |  |  |
| D:13:39  |  |  |
|  |  |  |

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Section de Dépôt

Read, Matthew Charles Venner Shipley LLP 20 Little Britain London EC1A 7DH GRANDE BRETAGNE

Datum/Date

11/05/05

Zeichen/Ref./Réf.

Anmeldung Nr./Application No./Demande no./Patent Nr./Patent No./Brevet no.

02772655.3-2416

/ 1543701

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

Nokia Corporation

MCR/41125EP1

NOTIFICATION OF EUROPEAN PUBLICATION NUMBER AND INFORMATION ON THE APPLICATION OF ARTICLE 67(3) EPC

The provisional protection under Article 67(1) and (2) EPC in the individual Contracting States becomes effective only when the conditions referred to in Article 67(3) EPC have been fulfilled (for further details, see information brochure of the European Patent Office "National Law relating to the EPC" and additional information in the Official Journal of the European Patent Office).

Pursuant to Article 158(1) EPC the publication under Article 21 PCT of an international application for which the European Patent Office is a designated Office takes the place of the publication of a European patent application.

The bibliographic data of the above-mentioned Euro-PCT application will be published on 22.06.05 in Section I.1 of the European Patent Bulletin.

The European publication number is 1543701.

In all future communications to the European Patent Office, please quote the application number plus Directorate number.

RECEIVING SECTION



EPO Form 1219 (02.94)

06/05/05 M12



P.B.5818 • Patentlaan 2 2280 HV Rijswijk (ZH) (070) 3 40 20 40 FAX (070) 3 40 30 16 Europäisches Patentamt European Patent Office Office européen des brevets

Generaldirektion 1

Directorate General 1

Direction générale 1

Read, Matthew Charles Venner Shipley LLP 20 Little Britain London EC1A 7DH GRANDE BRETAGNE



**EPO Customer Services** 

Tel.: +31 (0)70 340 45 00

Date 09-05-2005

Reference MCR/41125EP1 Application No./Patent No. 02772655.3 - PCT/IB0204004

Applicant/Proprietor
Nokia Corporation

Communication pursuant to Rules 109 and 110 EPC

(1) Amendment of application documents, especially the claims (Rule 109 EPC)

The above mentioned international (Euro-PCT) application has entered the European phase, or can do so, once the necessary conditions are fulfilled.

Under Articles 28, 41 PCT, Rules 52, 78 PCT and Rule 86(2) to (4) EPC, the applicant may amend the application documents after receiving the international search report.

Whether or not he has already done so, he now has a further opportunity to file amended claims or other application documents within a non-extendable time limit of ONE MONTH after notification of the present communication (Rule 109 EPC).

The claims applicable on expiry of the above time limit, i.e. those filed on entry into the European phase or in response to the present communication, will form the basis for the calculation of any claims fee to be paid (see page 2) and for any supplementary search to be carried out under Article 157(2) EPC (Rule 109 EPC).

Date



#### (2) Claims fees under Rule 110 EPC

If the application documents on which the European grant procedure is to be based comprise more than ten claims, a claims fee shall be payable for the eleventh and each subsequent claim within the period provided for in Rule 107(1) EPC.

- Based on the application documents currently on file, all necessary claims fees have already been paid (or the documents do not comprise more than 10 claims).
- All necessary fees will be/have been debited automatically according to the automatic debit order.
- The claims fees due for the claims 11 to 0024 were not paid within the above-mentioned period.

Any non-paid claims fee, either based on the current set of claims or on any amended claims to be filed pursuant to Rule 109 EPC (see page 1), may still be validly paid within a non-extendable period of grace of **ONE MONTH** after notification of this communication.

If a payment is made for only some of the claims, it must be indicated for which claims it is intended. If a claims fee is not paid in due time, the claim concerned is deemed to be abandoned (Rule 110(4) EPC).

If claims fees have already been paid, but on expiry of the above-mentioned time limit there is a new set of claims containing fewer fee-incurring claims than previously, the claims fees in excess of those due under Rule 110(2), 2nd sentence, EPC will be refunded (Rule 110(3) EPC).

You are reminded that any supplementary search under Article 157(2) EPC will relate only to the last set of claims applicable on expiry of the above time limit AND will be confined to those fee-incurring claims for which fees have been paid in due time.

The fee for the eleventh and each subsequent claim is EUR 40,00.

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P.B.5818 - Patentiaan 2 2280 HV Rijswijk (ZH) 32 (070) 3 40 20 40 FAX (070) 3 40 30 16 Europäisches Patentamt European Patent Office Office européen des brevets

Generaldirektion 1

Directorate General 1

Direction générale 1

Read, Matthew Charles Venner Shipley LLP 20 Little Britain London EC1A 7DH GRANDE BRETAGNE



**EPO Customer Services** 

Tel.: +31 (0)70 340 45 00

Date 06.04.05

Reference MCR/41125EP1 Application No./Patent No. 02772655.3- -IB0204004

Applicant/Proprietor Nokia Corporation

#### Refund of fees

The following fees were paid in respect of the application 02772655.3:

Fee Code Voucher No Date Currency Amount

Examination fee 006 00204280 02.03.05 EUR 1 144,00

#### REFUND ORDER

- In accordance with Art. 12(2) Rules relating to Fees in conjunction with Rule 104b(6) EPC, 50 % of the examination fee will be refunded.
- The refund will be done by: CREDITING YOUR DEPOSIT ACCOUNT 28050158.

Amount refundable:

Code

Currency

**Amount** 

Voucher No

006

**EUR** 

572,00

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Total:

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EPO Form 1185 05.94

## <u>o</u>))

#### To the European Patent Office

# Entry into the European phase (EPO as designated or elected Office)

| European application number  | EP02772655.3  |
|--|---|
| PCT application number   | PCT/IB2002/04004  |
| PCT publication number   | WO04030399  |
| Applicant's or representative's reference  | MCR/41125EP1  |
| Applicant     Particulars of the applicant(s) are contained in the international publication or were recorded by the International Bureau subsequent to the international publication. | <b>Ø</b>  |
| Changes which have not yet been recorded by the International Bureau are set out here:   |   |
| Address for correspondence   |   |
| 2. Representative 1  |   |
| This is the representative who will be listed in the Register of European Patents and to   |   |
| whom notifications will be made  |   |
| Name   | Read, Matthew   |
| Address of place of business   | Venner Shipley LLP<br>20 Little Britain<br>London EC1A 7DH<br>United Kingdom  |
| Telephone  | +44 (0)20 7600 4212   |
| Fax  | +44 (0)20 7600 4188   |
| e-mail   | mail@vennershipley.co.uk  |
| Any additional representative(s) is/are listed here:   | $\square$   |
|  | Jump, Timothy Geary, Stuart Killin, Stephen Gill, Stån Grey, Ian Walaski, Jan Piotrowicz, Pawel Derry, Paul Elend, Almut Mair, Julia Woodward, John Pearson, Sarah Thomson, Craig Cowley, Catherine |

| 3. Authorisation   |   |
|--|---|
| An individual authorisation is attached.   |   |
| A general authorisation has been registered under No:  |   |
| A general authorisation has been filed, but not yet registered.  |   |
| The authorisation filed with the EPO as PCT receiving Office expressly includes the European phase.  |   |
| 4. Request for examination<br>Examination of the application under Art. 94 EPC is hereby requested. The examination<br>fee is being (has been, will be) pald.              | $\square$   |
| Request for examination in an admissible non-EPO language:   | ☑ Täten pyydetään hakemuksen tutkimista artiklan 94 mukaisesti. |
| <ol> <li>Copies         One or more additional sets of copies of the documents cited in the supplementary<br/>European search report are hereby requested.     </li> </ol> |   |
| Number of additional sets of copies  |   |
| 6. Documents intended for proceedings before the EPO 6.1 Proceedings before the EPO as designated Office (PCT I) are to be based on the following documents:               |   |
| the application documents published by the International Bureau (with all claims, description and drawings), where applicable with amended claims under Art. 19 PCT        | ₫   |
| unlass replaced by the amendments attached.  |   |
| Where necessary, clarifications should be attached as 'Other Documents'  | -   |
| 6.2 Proceedings before the EPO as elected Office (PCT II) are to be based on the following documents:  |   |
| the documents on which the international preliminary examination report is based, including any annexes  |   |
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| Where necessary, clarifications should be attached as 'Other Documents'  |   |
| If the EPO as International Preliminary Examining Authority has been supplied with test reports, these may be used as the basis of proceedings before the EPO.             |   |

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#### 16. Signature(s) of applicant(s) or representative

Place:

London

Date:

25 February 2005

Signed by:

Subject: GB, Venner Shipley LLP, J. Hester 1309
Issuer: , European Patent Office, European Patent Office CA
( Representative )

Capacity:

For employees (Art. 133(3) EPC) having a general authorisation:

General authorisation No.

| 10. De   | signation fees  |  |                   |                   |  |
|--|---|--|-------------------|-------------------|--|
| 10.1 It is currently intended to pay seven times the amount of the designation fee. The designation fees for all the EPC contracting states designated in the international application are thereby deemed to have been paid (Art. 2 No. 3 RFees). |   |  | e. The 🗹<br>al    |                   |  |
|  | E BG CH&LI CY CZ DE DK EE ES FI FR GB<br>SI SK TR   | GR HU IE IT LU MC NL P   | _PT RO            |                   |  |
| 10.2 The declaration in No. 10.1 does not apply. Instead, it is currently intended to pay<br>fewer than seven designation fees for the following EPC contracting states designated in<br>the international application:                            |   |  | to pay  gnated in |                   |  |
| it is i  | requested that no communications under Rule contracting states not indicated.   | 108(3) EPC be issued in res  | spect of          |                   |  |
| expli  | If an automatic debit order has been issued (S<br>y of the basic period under Rule 107(1)(d) EPC<br>lesignation fee. If states are indicated in No. 10<br>nose states only, unlass instructed otherwise be  | mount of<br>nation fees  |                   |                   |  |
| 11. Ex   | tension of the European patent  |  |                   |                   |  |
| non-   | application is also considered as being a reque<br>contracting states to the EPC designated in the<br>ansion agreements" were in force on the date of<br>ever, the extension only takes effect if the preso | international application with filing the international applicational applicational applicational applicational applicational applicational applicational applicational applicational application with the international application with the internation with the internation and the internation application with the internation and the internation application with the internation application and the internation application and the internation application application application application application application and the internation application applicati | h which cation.   |                   |  |
| It is  | currently intended to pay the extension fee for the   | he following states:   |                   |                   |  |
| 12. De   | bit from deposit account  |  | Ø                 |                   |  |
| Cum  | ency  |  | EUR               |                   |  |
|  | European Patent Office is hereby authorised to<br>ount any fees and costs indicated on the fees pa  |  | posit             |                   |  |
| Dep  | osit account number   |  | 28050158          |                   |  |
| Acc  | ount holder   |  | Venner Shipley    | ЩР                |  |
|  | eimbursements (if any) should be ma<br>sit account:   | de to the following EP   | 0 🗹               |                   |  |
| Num  | ber and account holder  |  | 28050158          |                   |  |
| 14. Fe   | es  |  |                   |                   |  |
|  |   | Factor applied   | Fee schedule      | Amount to be paid |  |
| 14-1   | 002 Search fee  | 0  | 690.00            | 0.00              |  |
| 14-2   | 005 Designation fee   | 7  | 75.00             | 525.00            |  |
| 14-3   | 006 Examination fee   | 1 (80%)  | 1 430.00          | 1 144.00          |  |
| 14-4   | 020 Basic national fee for an international   | . 1  | 90.00             | 90.00             |  |
|  | application Total:  |  | EUR               | 1 759.00          |  |
| 15. Ar   | nnotations  |  |                   |                   |  |
|  |   |  |                   |                   |  |
|  | ····  |  |                   |                   |  |

Figure 1 is a block diagram of a prior communication system 1, for multicasting information from a content provider, i.e., host 2, to a plurality of receiver hosts 3 via the Internet 4. For simplicity, the data path 5 is depicted as extending directly from the content provider 2 to a router 6 without intervening stages, such as other transmitters or routers, which may be located between these nodes. The data paths leading from the content provider 2 to the receiver hosts 3a-3c diverge at the router 6. Situations where this divergence include those where the receiver hosts 3 do not belong to the same sub-network, where the receiver hosts 3 are served by different transmitters 7 or where the radio access network is not multicast enabled.

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Instead of sending a separate stream of data packets A-D for each individual receiver host 3a, 3b, the content provider 2 provides a single data stream 5. The data stream is replicated by a multicast-enabled edge router 6 wherever the paths to the different receiver hosts 3a, 3b diverge. The router 6 copies the incoming data packets A-E, producing duplicate data streams 8a, 8b for transmission to the receiver hosts 3a, 3b. As the content provider 2 transmits only a single data stream 5, the use of its system resources and the network load are reduced when compared with a unicast system. Furthermore, as the transmission of replicated data is kept to a minimum, multicasting may be used in wide area networks where broadcasting is unfeasible.

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There are two types of multicasting services. In the first, a content provider has a reserved bandwidth for delivering a predetermined service to a group of end-users. The second type allows end-users to select the service provided to them. In both cases, a user can receive the multicast stream of data by submitting a request to join the group by sending a message to the content provider in a format specified by the Internet Engineering Task Force (IETF). The user can leave the multicast group by submitting a corresponding request.

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Multicasting is a suitable mechanism for providing end-users with a continuous service and has limited applicability for "one-shot" transmissions. For example, a

#### Brief Description of the Drawings

An embodiment of the invention will now be described with reference to the accompanying drawings, in which:

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Figure 1 is a block diagram of a prior art communication system;

Figure 2 is a block diagram of a communication system in accordance with an

embodiment of the present invention;

Figure 3 is a flowchart of a method according to an embodiment of the present invention as enacted by a router;

Figure 4 is a block diagram of a router in accordance with an embodiment of the present invention; and

Figure 5 depicts a mobile handset terminal for use according to an embodiment of the invention.

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#### **Detailed Description**

Figure 2 depicts an embodiment of a communication system 9 for multicast file delivery via the Internet 4 comprising a multimedia content provider 2, receiver hosts 3a-3c, a router 6, a radio transmitter 7 and a cache 10. The data path 5 may include further elements, such as other transmitters or routers, which may be located between the content provider 2 and router 6. The data paths leading from the content provider 2 to the receiver hosts 3a-3c have a common portion 5 extending between the content provider 2 and the router 6 and diverge between the router 6 and the individual receiver hosts 3a-3c.

In this particular example, receiver hosts 3a-3c are mobile devices belonging to a cellular wireless DVB-T wide area network (WAN) and the router 6 is an edge router, i.e. the last router before the air-interface in the file delivery path between the content provider 2 and the receiver hosts 3a-3c. The router 6 forwards the multicast data to the radio transmitter 7, which sends the data to the receiver hosts over the wireless network in accordance with a suitable communication protocol. Suitable protocols include, but are not limited to, the following protocols: Reliable



Europäisches Patentamt European Patent Office Office européen des brevets

#### Acknowledgement of receipt

We hereby acknowledge receipt of the form for entry into the European phase (EPO as designated or elected Office) as follows:

| ·                      |   |
|------------------------|---|
| Submission number      | 41328   |
| PCT application number | PCT/IB02/04004  |
| Date of receipt        | 25 February 2005  |
|                        | f. c = 3.43.40.400 (800 (800 (800 (800 (800 (800 (800 ( |
| Your reference         | MGR/41125EP1  |
| Applicant              |   |
| Country                |   |
| Documents submitted    | DESC.PDF EPF1200.PDF                                    |
|                        | application-body.xml ep-euro-pct.xml package-data:xml   |
| Submitted by           | CN=J: Hester 1309,O=Venner Shipley LLP,C=GB             |
| Method of submission   | Online  |
| Date and time receipt  | 25 February 2005, 14:54:35                              |
| generated              |   |
| Digest                 | BD:FE:8B:B5:9B:7C:FF:1A:B7:8A:39:A3:CE:FD:D5:28:62:7    |
| Digodo                 | 1:7A:21   |
|                        |   |

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